



DEPARTMENT OF THE AIR FORCE
AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC)
BROOKS CITY-BASE TEXAS

8 Feb 04

MEMORANDUM FOR 72 ABW/CC

FROM: AFIOH/SDR
2350 Gillingham Drive
Brooks City-Base TX 78235-5103

SUBJECT: Consultative Letter, IOH-SD-BR-CL-2004-0005, Radium/Radon Monitoring and Dose Assessment Due to Past Luminous Paint Operations at Tinker AFB OK

1. Introduction: HQ USAF/SG directed the Air Force Institute of Operational Health's Radiation Surveillance Division (AFIOH/SDR) to investigate potential radiation exposures to personnel working in and around buildings that may have previously housed radium painting operations. From 27-31 October 2003, Capt Néstor Ruiz, 1Lt Bruce Murren, SSgt Jennifer Peters, and SSgt Tammy Hintz performed an assessment of residual radioactivity,¹ specifically radium-226 and its progeny (including radon-222). The objective was to ensure compliance with Air Force Instruction (AFI) 48-148, *Ionizing Radiation Protection*, 12 October 2001. The team evaluated external and internal (inhalation and ingestion) personnel radiation exposure pathways within Building 201, the associated infrastructure, and portions of the sanitary and storm sewer systems. Measured radon concentrations and radiation exposure rates in Building 201 did not exceed standards for the general public. Environmental samples (e.g. soils, sewer sediment, water) were not collected and as such, the presence of residual radioactivity in the sewers or inaccessible building infrastructure could not be precluded. However, exposure rates measured in the sewers did not exceed applicable standards for the general public. Monitoring and sampling is required before and/or during any intrusive activities in impacted areas.² Survey methodology, results, conclusions, and recommendations are detailed in the following paragraphs.

¹ "Residual radioactivity" as defined in NUREG/CR-1575, *Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)*, is "radioactivity in structures, materials, soils, groundwater, and other media at a site resulting from activities under the cognizant organization's control. This includes radioactivity from all sources used by the cognizant organization, but excludes background radioactivity... It also includes radioactive materials remaining at the site as a result of routine or accidental releases of radioactive material at the site..." Technically, radioactivity describes the mean number of nuclear transformations occurring in a given quantity of residual radioactive material per unit time, however "residual radioactivity" will be used in this letter in accordance with the MARSSIM definition. An "impacted" area is an area with "reasonable chance of containing residual radioactivity in excess of natural background or fall-out levels."

² Intrusive activities are those that involve or result in the disturbance of materials at a location known or suspected to contain residual radioactivity. They may result in unwarranted personnel exposures, contamination of other areas, or an environmental release, and can be of an investigative (floor scabbling, pipe investigations, soil sampling/coring, sediment sampling, etc.) or removal (removal of flooring, plumbing, paint, walls, HVAC components, structural components, drains, etc.) action nature.

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2. Background: Based on historical records, instrument repair and luminous painting operations using radium paint were conducted in Building 201.³ Similar operations at other Air Force locations revealed residual radioactivity (from radium) in expected areas such as exhaust ventilation systems, waste drains, and floors. The U.S. Army Corps of Engineers conducted a records search in 1989 and indicated that the radium dial painting room was “completely removed” to include ventilation ducts and dry walls. As per the report, the remaining room shell was “tested” to insure that there was no further contamination. In 1996, OHM Remediation Services performed remediation work on the south side of Building 201. Remediation efforts consisted of soil removal and demolition of a concrete ramp. Soil clean up criteria used for unrestricted release was 5.0 pCi/g for radium-226. Building 201 is now occupied by the 72 MSS/DPE and used for training.

3. Instrumentation and Methods:

a. External Exposure Pathway Assessment: Personnel have potential external exposures to gamma radiation from “fixed” residual radioactivity, if present. Surfaces were scanned with gamma scintillators, and “gamma count rates” measured, to identify elevated radioactivity from residual radioactivity (presumably from radium). The scanning pattern consisted of moving the detector in an “S” motion approximately 12 inches above the surface. For each location of elevated radioactivity, radiation “exposure rates” were measured using pressurized ion chambers. See Attachment 1 for specific instrumentation used.

b. Internal Exposure Pathway Assessment: Personnel have potential internal exposures to alpha, beta, and/or gamma radiation from inhalation or ingestion of “removable” radioactivity, if present, and/or from inhalation of radon-222 (radium-226 progeny). To determine if removable radioactivity was present, 47 mm-diameter papers were wiped on various surfaces of elevated radioactivity over an area of approximately 100 cm² using moderate pressure and analyzed using laboratory proportional counters. Alpha scintillation probes were also used to measure “alpha count rates” on surfaces of elevated radioactivity. To measure radon concentrations, passive electrets ionization chambers were left at various locations for 1-3 days. In addition, alpha track monitors were left at various locations to measure the average annual radon concentration and will be collected in November 2004 for analysis. See Attachment 2 for alpha track locations.

c. Background Measurements: To determine if a location is elevated in radioactivity due to residual radioactivity, natural background radiation must be subtracted from the measurements. The background location (Building 1) was chosen due to having similar construction as the impacted areas. The average background radon concentration inside Building 1 was 0.45 ± 0.15 picoCurie per liter of air (pCi/L). The average exposure rate inside Building 1 was 0.013 ± 0.004 milliRoentgen per hour (mR/hr). Average background gamma count rates in and around Building 1 were 6.0 ± 2.4 thousand counts per minute (kcpm) for concrete areas inside and outside, 5.4 ± 2.3 kcpm for vinyl and carpeted areas, and 7.2 ± 2.7 kcpm for grassy areas. Locations were considered elevated in radioactivity if they exceeded Investigation Levels (IL) of twice the average background gamma count rate (error added) for the corresponding surface type. See Attachments 3-5 for background measurements.

³ AFRPA Briefing, “The Magnificent Seven – Air Depots and Luminous Painting: Learning from the BRAC Experience,” Ed Bailey, Booz Allen Hamilton

d. Building 201 Survey Method: Areas of interest inside Building 201 were chosen based on a review of all available drawings. The areas with a high potential of containing residual radioactivity were then scanned. Areas identified with a high potential include wall and floor surfaces; pipe clean outs, floor drains, sinks, or toilets; and any locations containing potentially impacted ventilation system components. Locations were considered elevated if they exceeded ILs of 15.4 kcpm for carpet/vinyl floors, 16 kcpm for concrete floors and 20.0 kcpm for grass/soil areas. Locations close to, or in excess of, the IL were swiped to assess removable residual radioactivity. Exposure rates were measured at 1-meter (health physics standard practice). These 1-meter exposure rate measurements were consistently within the range of natural background radiation random fluctuations and hence indistinguishable. For all impacted locations, we documented exposure rates at contact to provide a worst case. These at-contact measurements become critical information for risk analysis during any remediation activities.

4. Results:

a. External Exposure Pathway Assessment:

(1) *Building 201, Interior:* The average exposure rate inside Building 201 was 0.008 ± 0.003 mR/hr. Measured ambient exposure rate inside the radium room was 0.009 mR/hr. No locations in Building 201 exceeded the ILs as discussed below. See Attachment 3 for gamma radiation data.

Radium Room (Classroom 5): The measured exposure rate was 0.009 mR/hr. No gamma radiation measurements exceeded the IL.

(2) *Building 201, Exterior Perimeter:* The perimeter was scanned within 1-meter of the building for elevated radioactivity. No location exceeded the IL.

(3) *Storm Sewer System and Sanitary Sewer System:* Exposure rates of one accessible manhole in front of Building 201 measured between 0.010-0.050 mR/hr both outside and inside. Gamma radiation measurements of the pipes inside the bathrooms located at the north side were indistinguishable from natural background. No sewer lines or storm drains were identified around the northwest side of the building.

b. Internal Exposure Pathway Assessment (Radon and Removable Residual Radioactivity):

(1) *Building 201:* The average indoor radon concentration ranged from 0.0-6.7 pCi/L over two days, with an average concentration of 1.2 ± 0.2 pCi/L. Inside the radium room the average radon concentration was 0.5 ± 0.2 pCi/L. The maximum concentration of 6.7 pCi/L was measured inside a restroom with poor ventilation and is not representative of an occupational environment. From this short-term data, the average radon concentration in Building 201 does not exceed the action level of 4 pCi/L. All gross alpha, beta, and gamma radioanalysis results reported were below the minimum detectable activity of 0.02 pCi/cm² for gross alpha/beta or 0.5 pCi/cm² for gross gamma. See Attachments 5-6 for E-PERM[®] data and calculations.

Radium Room (Classroom 5): The average radon concentration measured was 0.5 ± 0.2 pCi/L. Swipe results were negative for removable residual radioactivity and are listed in Attachment 7.

5. Conclusions:

a. The average exposure rate and radon concentrations inside Building 201 and the radium room do not represent an increased occupational hazard to workers. The average exposure rate of 0.008 mR/hr and annual exposure of 16 mR do not exceed dose limits for the general public of 2 mR in any hour or 100 mR above the average dose received from natural background in a year as specified in AFI 48-148.

b. Personnel in Building 201 are not exposed internally to residual radioactivity as none was detected.

c. Short-term radon screening results indicate that personnel in Building 201 are not exposed to elevated concentrations of radon gas. The average building radon screening measurement of 1.2 ± 0.2 pCi/L does not exceed the action level for indoor radon of 4 pCi/L as specified in AFI 48-148, nor does the average radon screening measurement in any room. The only exception, the men's restroom, is not representative of a working environment.

d. Personnel are not exposed to elevated radioactivity in the grass and paved areas immediately outside Building 201. Historical records indicate that radiological soil surveys and soil remediation efforts were conducted on the south side of Building 201. The historical documents reviewed provided no survey data details specific to either the release or clean up criteria used for the radium room "shell". Therefore, the radium room "shell" should be considered impacted until environmental investigations and/or surveys indicate otherwise.

e. Personnel are not exposed to elevated radioactivity in storm sewer or sanitary sewer manholes immediately outside Building 201. However, the presence of residual radioactivity beyond the interior of Building 201 (including associated sewer lines) could not be precluded. As such, any disturbance of the infrastructure or sewer lines associated with Building 207 could result in unwarranted personnel exposures, contamination of other areas, or an environmental release.

6. Recommendations:

a. Restrict any intrusive activities on the floors, walls, and pipes in the radium room. Consult with the installation radiation safety officer (RSO) and contact the USAF Radioisotope Committee (RIC) prior to intrusive activities in these areas to determine if a USAF radioactive material (RAM) permit is necessary, in accordance with AFI 40-201, *Managing Radioactive Materials in the US Air Force*, 1 September 2000. Monitoring and sampling should be conducted before and/or during any intrusive activities in impacted areas.

b. Update applicable engineering drawings to indicate the potential existence of residual radioactivity in Building 201. Ensure future projects involving Building 201, and any associated residual radioactivity, are coordinated through the installation RSO.

c. Recommend immediate assessment of Building 201 infrastructure and associated downstream sewer lines to establish follow-on environmental investigation requirements, remediation requirements, and/or access restrictions, for potentially impacted locations. Environmental investigations will identify the presence and extent of any further residual radioactivity; help determine applicable local, state, and federal regulatory requirements; and guide remediation efforts. The presence of residual radioactivity may require restrictions/controls to prevent unwarranted personnel exposures, contamination of other areas, or an environmental release.⁴

d. AFIOH surveys of three other former luminous paint facilities found residual radioactivity in each of their associated infrastructure and sewers. These normally inaccessible areas were not sampled during this survey, therefore, the sanitary and storm sewer systems should be considered impacted until environmental investigations or surveys indicate otherwise.

e. Notify the USAF RIC if any further residual radioactivity is found to ensure compliance with Air Force radioactive material permit requirements.

f. Any items removed that resulted from radiological remediation efforts must be properly screened and, if necessary, disposed as low level radioactive waste in accordance with AF instructions, and all applicable State or Federal regulations.

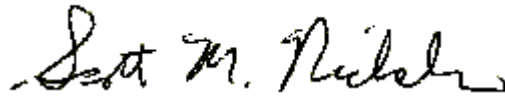
g. Perform a radiological survey for Building 201 in accordance with U.S. Nuclear Regulatory Commission NUREG 1575, *"Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM),"* prior to building demolition or deed transfer (e.g. base closure).

h. If further guidance is needed on environmental investigations, radiological remediation efforts, or radioactive waste disposal, contact the Environmental Health Physics Branch (AFIOH/SDRE) at DSN 240-3486.

i. Collect alpha track monitors in November 2004 and submit to RSSI, Inc. for analysis along with the five control blank alpha tracks. RSSI will send the results to AFIOH/SDR for compilation. AFIOH/SDR will send a report with the results to the base at that time.

⁴ *The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) requires actions be taken to respond directly to releases or threatened releases of hazardous substances that may endanger public health or the environment. Radium is listed in the 2003 CERCLA Priority List of Hazardous Substances. The Agency for Toxic Substances and Disease Registry (ATSDR), in conjunction with the Environmental Protection Agency (EPA), developed the listing to specify those hazardous substances that pose the most significant potential threat to human health due to their known or suspected toxicity and potential for human exposure at sites listed on the designated National Priorities List.*

7. AFIOH/SDR thanks the 72 AMDS/SGPB and 72 MSS/DPE for their support and help which resulted in an enjoyable and productive survey. If you have questions or need further assistance, please contact Maj Craig Bias or Capt Néstor A. Ruiz at DSN 240-3486, (210) 536-3486, or the ESOH Service Center at 1-888-232-ESOH.



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Attachments:

1. Survey Instrumentation
2. Alpha-Tracks (long term radon monitoring) location list
3. Gamma radiation survey background data & survey map
4. Raw data-Pressurized ionization chamber
5. Raw data- E-PERM[®]
6. E-PERM[®] calculation results
7. Swipe sample results

cc: AFMSA/SGPR
HQ AFMC/SGPB
HQ AFMC/CEV
HQ USAF/ILEV
72 AMDS/SGPB
AFRPA/EV

Survey Instrumentation

Manufacturer	Model No.	Serial No.	Calibration Date	Type/Purpose
Victoreen/Inovision	450P	2647	Jul 03	Pressurized Ion Chamber/Ambient Exposure Rate measurements
Victoreen/Inovision	450P	2622	Jun 03	Pressurized Ion Chamber/Ambient Exposure Rate measurements
Rad Elec Inc.	E-PERM [®]	0892	Aug 03	Short-Term Electrets Ion Chamber and Reader/ Radon Monitor
Rad Elec Inc.	E-PERM [®]	0878	Aug 03	Short-Term Electrets Ion Chamber and Reader/ Radon Monitor
Eberline	E600/SPA-3 probe	2518/2225	Jan 03	Survey meter with NaI probe/Direct gamma radiation measurements
Eberline	E600/SPA-3 probe	2526/2223	Jan 03	Rate meter with NaI probe/Direct gamma radiation measurements
<i>femto</i> – TECH, INC.	CRM-510	CRM5105422	Sep 03	Pulsed Ion Chamber/Continuous Radon Monitoring
<i>femto</i> – TECH, INC.	CRM-510	CRM5105425	Sep 03	Pulsed Ion Chamber/Continuous Radon Monitoring

Alpha Tracks Location

Serial #	Location	Start Test
149775	Building 1, Room 112	10/28/03 10:20
149721	Building 1, Room 114	10/28/03 10:10
149772	Building 1, Room 114	10/28/03 10:04
149766	Building 1, Room 112	10/28/03 10:25
149760	Building 1, Room 113	10/28/03 11:00
149770	Building 1, Room 112	10/28/03 10:30
149765	Building 1, Room 114	10/28/03 9:58
149769	Building 201, Classroom 2	10/28/03 13:00
149723	Building 201, Men Restroom Snack Area	10/28/03 13:45
149722	Building 201, Room 8	10/28/03 14:36
149756	Building 201, Room 6	10/28/03 13:28
149767	Building 201, Room 8	10/28/03 14:30
149763	Building 201, Women Restroom Snack Area	10/28/03 13:49
149752	Building 201, Room 12	10/28/03 14:55
149754	Building 201, Room 12	10/28/03 14:53
149755	Building 201, Room 13	10/28/03 13:52
149720	Building 201, Room 10	10/28/03 16:30
149718	Building 201, Room 4	10/28/03 16:00
149716	Building 201, Room 17	10/28/03 15:55
149717	Building 201, Room 105, mail room	10/28/03 15:45
149757	Building 201, Room 14	10/28/03 15:25
149711	Building 201, Room 14	10/28/03 15:15
149724	Building 201, Room 22	10/28/03 15:40
149771	Building 201, Mr B Office	10/28/03 12:55
149768	Building 201, Room 3	10/28/03 13:10
149761	Building 201, Room 7	10/28/03 13:30
149764	Building 201, Room 11	10/28/03 14:18
149759	Building 201, Room 13	10/28/03 13:55
149773	Building 201, Room 1	10/28/03 14:45
149774	Building 201, Classroom 5	10/28/03 13:20
149725	Building 201, Room 11	10/28/03 14:05

Gamma Radiation Direct Readings Survey -Background (Building 1)

(Detector to surface distance =28.5 cm)

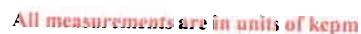
(Instrument-to instrument variation was negligible and within the error range)

	Inside Over Carpet	Outside Over Concrete	Outside Over Grass
	kCPM	kCPM	kCPM
	5.40	5.99	7.22
	5.37	5.92	7.39
	5.43	5.84	7.19
	5.49	5.84	7.30
	5.25	5.91	7.19
	5.35	5.97	7.01
	5.39	5.86	7.24
	5.38	6.02	7.19
	5.35	5.90	7.19
	5.37	5.82	7.28
Average	5.38	5.91	7.22
Error	±2.32	±2.43	±2.69

Background:

North

3. Outside the building and over grass = 7.2 ± 2.7 kcpm, IL=19.8 kcpm



Pressurized Ion Chamber –Ambient Exposure

(Instrument-to instrument variation was negligible and within the error range)

	Background μR/hr
	10.0
	15.0
	25.0
	10.0
	2.0
	12.0
	15.0
Average	12.71
Error	±3.6

	Building 201	
	11.0	6.0
	8.0	6.0
	9.0	5.0
	12.0	7.0
	8.0	16.0
	5.0	9.0
	6.0	8.0
	7.0	7.0
	9.0	8.0
	5.0	9.0
	4.0	8.0
	7.0	6.0
Average	7.75	
Error	±2.8	

Raw Data, Tinker AFB OK

A-Track	S-Electret#	ST IV	ST FV	Location	StartTest	Finish Test	uR/hr	Purpose
149775	SAW120	733	728	Building 1, Room 112	10/28/03 10:20	10/30/03 11:21	10.00	Background
149721	SAW036	733	729	Building 1, Room 114	10/28/03 10:10	10/30/03 11:27	15.00	Background
149772	SAW083	735	729	Building 1, Room 114	10/28/03 10:04	10/30/03 11:25	25.00	Background
149766	SAV979	737	732	Building 1, Room 112	10/28/03 10:25	10/30/03 11:30	10.00	Background
149760	SAV954	738	733	Building 1, Room 113	10/28/03 11:00	10/30/03 11:28	2.00	Background
149770	SAV934	749	744	Building 1, Room 112	10/28/03 10:30	10/30/03 11:28	12.00	Background
149765	SAV958	752	745	Building 1, Room 114	10/28/03 9:58	10/30/03 11:25	15.00	Background
149769	SAW079	735	727	Building 201, Classroom 2	10/28/03 13:00	10/30/03 9:43	11.00	Survey
149723	SAV923	741	712	Building 201, Men Restroom Snack Area	10/28/03 13:45	10/30/03 9:52	8.00	Survey
149722	SAV923	738	732	Building 201, Room 8	10/28/03 14:36	10/30/03 10:10	9.00	Survey
149756	SAV996	728	719	Building 201, Room 6	10/28/03 13:28	10/30/03 9:40	12.00	Survey
149767	SAW054	733	725	Building 201, Room 8	10/28/03 14:30	10/30/03 10:10	8.00	Survey
149763	SAV984	747	739	Building 201, Women Restroom Snack Area	10/28/03 13:49	10/30/03 9:53	5.00	Survey
149752	SAW074	751	747	Building 201, Room 12	10/28/03 14:55	10/30/03 9:38	6.00	Survey
149754	SAW088	716	706	Building 201, Room 12	10/28/03 14:53	10/30/03 9:35	7.00	Survey
149755	SAW110	737	732	Building 201, Room 13	10/28/03 13:52	10/30/03 9:50	9.00	Survey
149720	SAV881	704	696	Building 201, Room 10	10/28/03 16:30	10/30/03 9:55	5.00	Survey
149718	SAV822	719	712	Building 201, Room 4	10/28/03 16:00	10/30/03 9:40	4.00	Survey
149716	SAV850	722	716	Building 201, Room 17	10/28/03 15:55	10/30/03 10:03	7.00	Survey
149717	SAW042	741	729	Building 201, Room 105, mail room	10/28/03 15:45	10/30/03 10:03	6.00	Survey
149757	SAV771	734	730	Building 201, Room 14	10/28/03 15:25	10/30/03 9:50	6.00	Survey
149711	SAV686	723	720	Building 201, Room 14	10/28/03 15:15	10/30/03 9:50	6.00	Survey
149724	SAV794	731	724	Building 201, Room 22	10/28/03 15:40	10/30/03 10:03	5.00	Survey
149771	SAW093	725	719	Building 201, Mr B Office	10/28/03 12:55	10/30/03 10:00	7.00	Survey
149768	SAW076	717	708	Building 201, Room 3	10/28/03 13:10	10/30/03 9:44	16.00	Survey
149761	SAW037	741	734	Building 201, Room 7	10/28/03 13:30	10/30/03 9:54	9.00	Survey
149764	SAW060	732	726	Building 201, Room 11	10/28/03 14:18	10/30/03 10:07	8.00	Survey
149759	SAW122	745	741	Building 201, Room 13	10/28/03 13:55	10/30/03 9:50	7.00	Survey
149773	SAV944	711	705	Building 201, Room 1	10/28/03 14:45	10/30/03 9:42	8.00	Survey
149774	SAV947	743	738	Building 201, Classroom 5	10/28/03 13:20	10/30/03 9:45	9.00	Survey
149725	SAV982	735	731	Building 201, Room 11	10/28/03 14:05	10/30/03 10:07	8.00	Survey
Average (background and survey data)							8.87	

Radon concentration for Short-Term E-PERMs, Tinker AFB OK

Electret#	Location	Purpose	IV	FV	StartTest	Finish Test	Days	Gamma	CF	Radon	(+/-) pCi/L
SAW120	Building 1, Room 112	Background	733	728	10/28/03 10:20	10/30/03 11:21	2.04	8.87	2.1172	0.4	0.1
SAW036	Building 1, Room 114	Background	733	729	10/28/03 10:10	10/30/03 11:27	2.05	8.87	2.1175	0.1	0.1
SAW083	Building 1, Room 114	Background	735	729	10/28/03 10:04	10/30/03 11:25	2.06	8.87	2.1181	0.6	0.2
SAV979	Building 1, Room 112	Background	737	732	10/28/03 10:25	10/30/03 11:30	2.05	8.87	2.1195	0.4	0.1
SAV954	Building 1, Room 113	Background	738	733	10/28/03 11:00	10/30/03 11:28	2.02	8.87	2.1201	0.4	0.2
SAV934	Building 1, Room 112	Background	749	744	10/28/03 10:30	10/30/03 11:28	2.04	8.87	2.1264	0.4	0.1
SAV958	Building 1, Room 114	Background	752	745	10/28/03 9:58	10/30/03 11:25	2.06	8.87	2.1275	0.8	0.2
Average 0.45											
SAW079	Building 201, Classroom 2	Survey	735	727	10/28/03 13:00	10/30/03 9:43	1.86	8.87	2.1175	1.3	0.2
SAV923	Building 201, Men Restroom Snack Area	Survey	741	712	10/28/03 13:45	10/30/03 9:52	1.84	8.87	2.1149	6.7	0.5
SAV923	Building 201, Room 8	Survey	738	732	10/28/03 14:36	10/30/03 10:10	1.82	8.87	2.1198	0.8	0.2
SAV996	Building 201, Room 6	Survey	728	719	10/28/03 13:28	10/30/03 9:40	1.84	8.87	2.1132	1.5	0.3
SAW054	Building 201, Room 8	Survey	733	725	10/28/03 14:30	10/30/03 10:10	1.82	8.87	2.1164	1.3	0.3
SAV984	Building 201, Women Restroom Snack Area	Survey	747	739	10/28/03 13:49	10/30/03 9:53	1.84	8.87	2.1244	1.3	0.3
SAW074	Building 201, Room 12	Survey	751	747	10/28/03 14:55	10/30/03 9:38	1.78	8.87	2.1278	0.3	0.1
SAW088	Building 201, Room 12	Survey	716	706	10/28/03 14:53	10/30/03 9:35	1.78	8.87	2.1060	1.9	0.3
SAW110	Building 201, Room 13	Survey	737	732	10/28/03 13:52	10/30/03 9:50	1.83	8.87	2.1195	0.5	0.2
SAV881	Building 201, Room 10	Survey	704	696	10/28/03 16:30	10/30/03 9:55	1.73	8.87	2.0997	1.4	0.3
SAV822	Building 201, Room 4	Survey	719	712	10/28/03 16:00	10/30/03 9:40	1.74	8.87	2.1086	1.1	0.3
SAV850	Building 201, Room 17	Survey	722	716	10/28/03 15:55	10/30/03 10:03	1.76	8.87	2.1106	0.8	0.2
SAW042	Building 201, Room 105, mail room	Survey	741	729	10/28/03 15:45	10/30/03 10:03	1.76	8.87	2.1198	2.4	0.3
SAV771	Building 201, Room 14	Survey	734	730	10/28/03 15:25	10/30/03 9:50	1.77	8.87	2.1181	0.3	0.1
SAV686	Building 201, Room 14	Survey	723	720	10/28/03 15:15	10/30/03 9:50	1.77	8.87	2.1120	0.0	0.1
SAV794	Building 201, Room 22	Survey	731	724	10/28/03 15:40	10/30/03 10:03	1.77	8.87	2.1155	1.1	0.2
SAW093	Building 201, Mr B Office	Survey	725	719	10/28/03 12:55	10/30/03 10:00	1.88	8.87	2.1123	0.7	0.2
SAW076	Building 201, Room 3	Survey	717	708	10/28/03 13:10	10/30/03 9:44	1.86	8.87	2.1069	1.5	0.3
SAW037	Building 201, Room 7	Survey	741	734	10/28/03 13:30	10/30/03 9:54	1.85	8.87	2.1212	1.0	0.2
SAW060	Building 201, Room 11	Survey	732	726	10/28/03 14:18	10/30/03 10:07	1.83	8.87	2.1164	0.8	0.2
SAW122	Building 201, Room 13	Survey	745	741	10/28/03 13:55	10/30/03 9:50	1.83	8.87	2.1244	0.3	0.1
SAV944	Building 201, Room 1	Survey	711	705	10/28/03 14:45	10/30/03 9:42	1.79	8.87	2.1043	0.8	0.2
SAV947	Building 201, Classroom 5	Survey	743	738	10/28/03 13:20	10/30/03 9:45	1.85	8.87	2.1230	0.5	0.2
SAV982	Building 201, Room 11	Survey	735	731	10/28/03 14:05	10/30/03 10:07	1.83	8.87	2.1186	0.3	0.1
Average 1.20											
0.23											

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308803
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302837
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 04-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (West wall, middle, paint scraped)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not Mail
Results To Tinker**

WW032837

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308804
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302838
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 04-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (West wall, middle)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032838

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308805
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302839
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 04-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (West wall, north end, paint scraped)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not Mail
Results To Tinker**

WW032839

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308806
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302840
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 04-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (West wall, north end)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032840

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308807
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302841
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 08-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (East wall, north end, below black board, paint
scraped)

Tinker AFB (WPID: 188)

**Give Results to SDRO Only (SSgt Peters), Do Not Mail
Results To Tinker**

WW032841

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061
or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308808
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302842
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 04-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (East wall, north end, below black board)

Tinker AFB (WPID: 188)

Give Results to SDRO Only (SSgt Peters), Do Not

Mail Results To Tinker WW032847

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308809
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302843
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 04-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (East wall, north end center, below black board,
paint scraped)

Tinker AFB (WPID: 188)

Give Results to SDRO Only (SSgt Peters), Do Not Mail

Results To Tinker

WW032843

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308810
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302844
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 08-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (East wall, north end center, below
black board)

Tinker AFB (WPID: 188)

Give Results to SDRO Only (SSgt Peters), Do Not

Mail Results To Tinker

WW032844

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308811
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302845
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (East wall, south end center, below black board,
paint scraped)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not Mail
Results To Tinker**

WW032845

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308812
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302846
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 08-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (East wall, south end center, below
black board)

Tinker AFB (WPID: 188)

**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032846

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308813
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302847
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 08-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (East wall, south end, below black
board, paint scraped)

Tinker AFB (WPID: 188)

**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032847

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308814
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302848
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 08-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (East wall, south end, below black board)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not Mail
Results To Tinker**

WW032848

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308815
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302849
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 08-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (South-East corner)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032849

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308816
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302850
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 08-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (South-East corner, indentation)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not Mail
Results To Tinker**

WW032850

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308817
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302851
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 18 (Old mechanical room, old concrete)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032851

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308818
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302852
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 12-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	1.7E-06 +/- 4.0E-07	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, East Entry (East wall, paint scraped)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not Mail
Results To Tinker**

WW03852

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308819
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302853
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, East Entry (East wall)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW03853

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308820
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302854
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, East Entry (West wall)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not Mail
Results To Tinker**

WW03285A

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308821
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302855
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, East Entry (West wall, paint scraped)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW03255

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308822
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302856
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, West Entry (East wall)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW0302856

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308823
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302857
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, West Entry (East wall, paint scraped)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032857

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

If you have any questions concerning the information provided above, please contact AFIERA/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308824
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302858
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, West Entry (West wall, paint scraped)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032858

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308825
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302859
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, West Entry (West wall)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032859

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308826
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302860
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 13
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032860

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308827
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302861
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 18 (Old mechanical room, old concrete,
east)

Tinker AFB (WPID: 188)

**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032861

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308828
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302862
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 1, Floor
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032862

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308829
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302863
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 1, Concrete
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032863

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308830
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302864
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 1, Wallpaper
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032864

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308831
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302865
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 1, Sheetrock
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032865

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308832
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302866
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 5 (West wall, south end)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032866

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308833
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302867
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 1 (West wall, under black board)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032867

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308834
Customer Address Code: 000253A
AFIERA/SDRH
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302868
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Rm 1 (West wall, under black board, paint
scraped)

Tinker AFB (WPID: 188)

**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032868

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch

SAMPLE ANALYSIS RESULTS REPORTED ON 12-DEC-2003

AFIERA/SDRR ID: 40308835
Customer Address Code: 000253A
AFIERA/SDRR
2350 GILLINGHAM DRIVE
BLDG 140
BROOKS AFB TX, 78235-5103

IDENTIFICATION:

Base Sample # WW0302869
Workplace or Site ID: 188 TINKER AFB
DATE COLLECTED: 24-NOV-2003 RECEIVED: 25-NOV-2003 COMPLETED: 09-DEC-2003
Sample Volume Received: 1 SWIPE(s)

EPA CODE N/A GROSS ALPHA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS BETA	< 2.0E-06	Microcuries / Swipe
EPA CODE N/A GROSS GAMMA	< 5.0E-05	Microcuries / Swipe

COMMENTS:

Bldg 201, Mr. Bean's Office (East wall, north end)
Tinker AFB (WPID: 188)
**Give Results to SDRO Only (SSgt Peters), Do Not
Mail Results To Tinker**

WW032869

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES.
UNCERTAINTY AT 95% CONFIDENCE LEVEL.

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Mr. Dale D. Thomas, GS-13
Chief, Radioanalytical Branch